查询KK25F120供应商

THYRISTOR MODULE

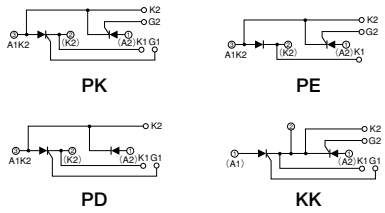
PK(PD,PE,KK)25F

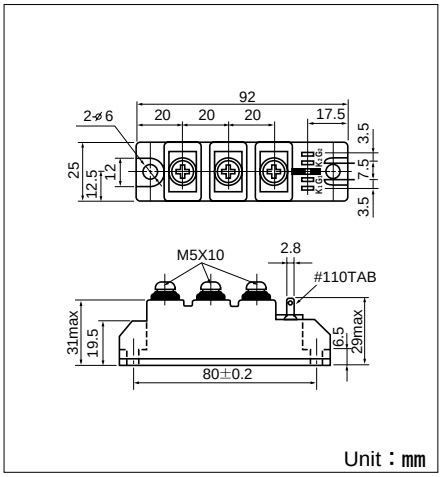
UL:E76102(M)

Power Thyristor/Diode Module **PK25F** series are designed for various rectifier circuits and power controls. For your circuit application. following internal connections and wide voltage ratings up to 1,600V are available. High precision 25mm (1inch) width package and electrically isolated mounting base make your mechanical design easy.

- $I_{T(AV)}$ 25A, $I_{T(RMS)}$ 39A, I_{TSM} 580A
- di/dt 100 A/ μs
- dv/dt 500V/ μs

(**Applications**)
Various rectifiers
AC/DC motor drives
Heater controls
Light dimmers
Static switches





■Maximum Ratings

Symbol	Item	Ratings				Unit
		PK25F40 PD25F40 PE25F40 KK25F40	PK25F80 PD25F80 PE25F80 KK25F80	PK25F120 PD25F120 PE25F120 KK25F120	PK25F160 PD25F160 PE25F160 KK25F160	
V_{RRM}	＊Repetitive Peak Reverse Voltage	400	800	1200	1600	V
V_{RSM}	＊Non-Repetitive Peak Reverse Voltage	480	960	1300	1700	V
V_{DRM}	Repetitive Peak Off-State Voltage	400	800	1200	1600	V

Symbol	Item		Conditions	Ratings	Unit
$I_{T(AV)}$	＊Average On-State Current		Single phase, half wave, 180° conduction, Tc：96℃	25	A
$I_{T(RMS)}$	＊R.M.S. On-State Current		Single phase, half wave, 180° conduction, Tc：96℃	39	A
I_{TSM}	＊Surge On-State Current		½cycle, 50Hz/60Hz, peak Value, non-repetitive	530/580	A
I^2t	＊I^2t		Value for one cycle of surge current	1400	A^2S
P_{GM}	Peak Gate Power Dissipation			10	W
$P_{G(AV)}$	Average Gate Power Dissipation			1	W
I_{FGM}	Peak Gate Current			3	A
V_{FGM}	Peak Gate Voltage (Forward)			10	V
V_{RGM}	Peak Gate Voltage (Reverse)			5	V
di／dt	Critical Rate of Rise of On-State Current		I_G=100mA, Tj=25℃, V_D=½V_{DRM}, dI_G/dt=0.1A/μs	100	A/μs
V_{ISO}	＊Isolation Breakdown Voltage (R.M.S.)		A.C.1minute	2500	V
Tj	＊Operating Junction Temperature			−40 to +125	℃
Tstg	＊Storage Temperature			−40 to +125	℃
	Mounting Torque	Mounting (M5)	Recommended Value 1.5-2.5 (15-25)	2.7 (28)	N・m (kgf・cm)
		Terminal (M5)	Recommended Value 1.5-2.5 (15-25)	2.7 (28)	
	Mass			170	g

■Electrical Characteristics

Symbol	Item	Conditions	Ratings	Unit
I_{DRM}	Repetitive Peak Off-State Current, max.	at V_{DRM}, single phase, half wave, Tj=125℃	10	mA
I_{RRM}	＊Repetitive Peak Reverse Current, max.	at V_{DRM}, single phase, half wave, Tj=125℃	10	mA
V_{TM}	＊Peak On-State Voltage, max.	On-State Current 75A, Tj=25℃ Inst. measurement	1.55	V
I_{GT}／V_{GT}	Gate Trigger Current/Voltage, max.	Tj=25℃, I_T=1A, V_D=6V	50/3	mA/V
V_{GD}	Non-Trigger Gate, Voltage. min.	Tj=125℃, V_D=½V_{DRM}	0.25	V
tgt	Turn On Time, max.	I_T=25A, I_G=100mA, Tj=25℃, V_D=½V_{DRM}, dI_G/dt=0.1A/μs	10	μs
dv／dt	Critical Rate of Rise of Off-State Voltage, min.	Tj=125℃, V_D=⅔V_{DRM}, Exponential wave.	500	V/μs
I_H	Holding Current, typ.	Tj=25℃	50	mA
I_L	Lutching Current, typ.	Tj=25℃	100	mA
Rth(j-c)	＊Thermal Impedance, max.	Junction to case	0.78	℃/W

＊mark：Thyristor and Diode part. No mark：Thyristor part

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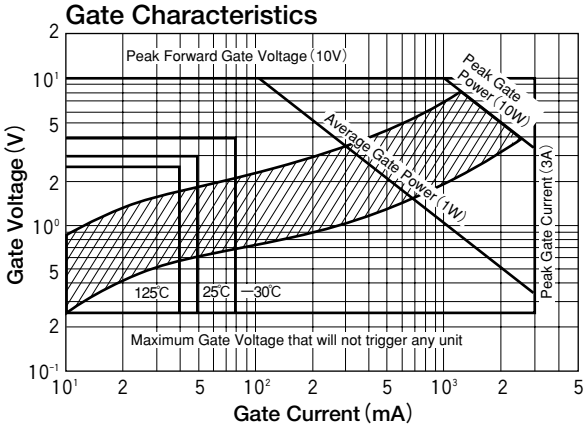
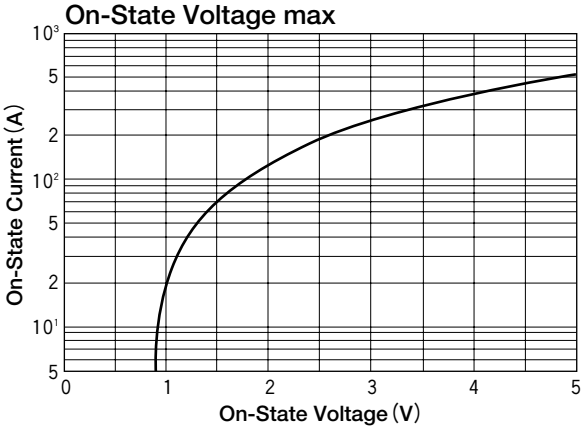
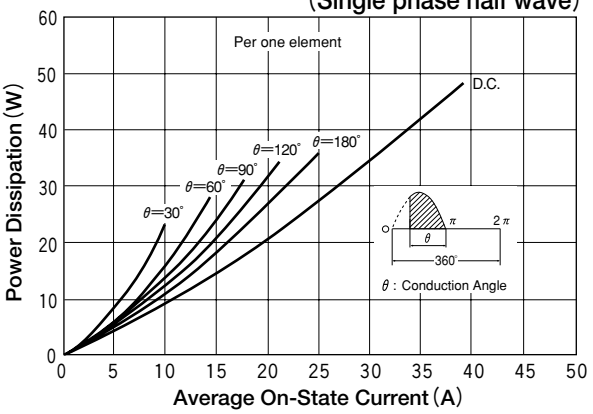
Gate Characteristics



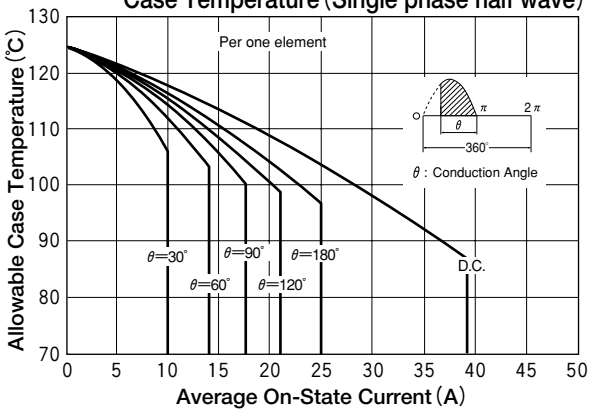
On-State Voltage max



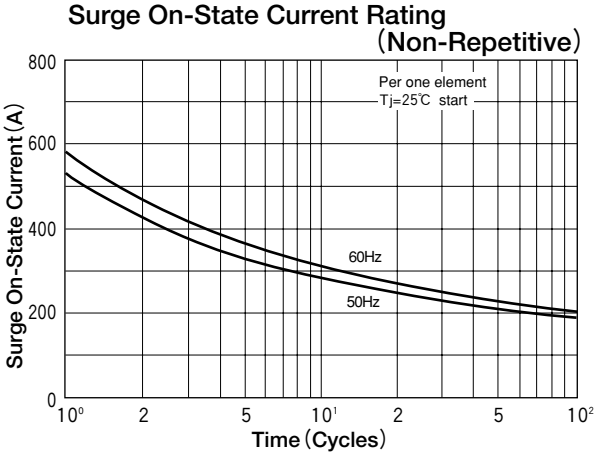
Average On-State Current Vs Power Dissipation (Single phase half wave)



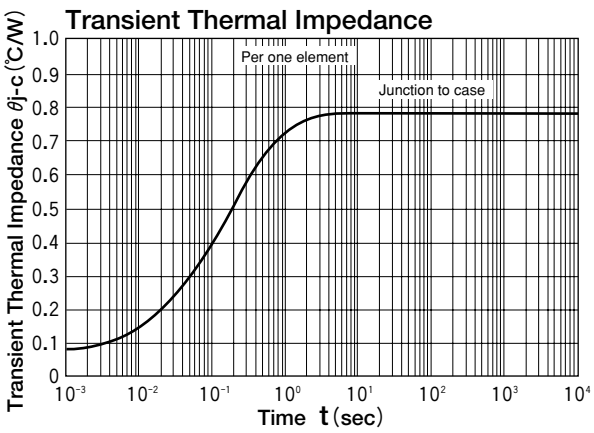
Average On-State Current Vs Maximum Allowable Case Temperature (Single phase half wave)



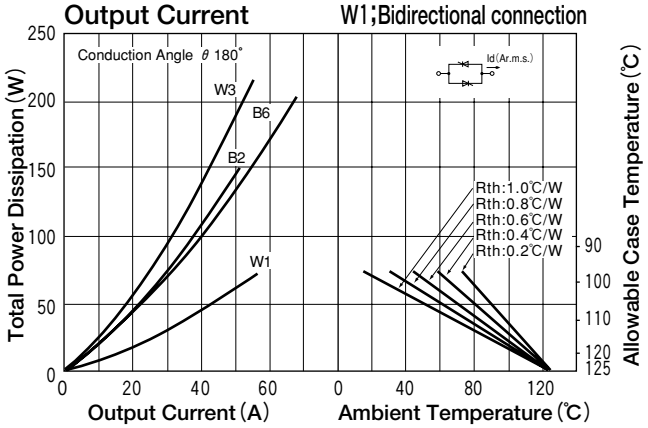
Surge On-State Current Rating (Non-Repetitive)



Transient Thermal Impedance



Output Current — W1;Bidirectional connection



B2;Two Pluse bridge connection / B6;Six pulse bridge connection / W3;Three phase bidiretional connection